COUNTING ROOM TECHNICIAN JOB PERFORMANCE MEASURE

TASK CODE:	CRT-B03			
TASK:	Calibrate the Alpha Spectroscopy System			
NAME:		SSN:		
	2 12-RL1002, Alpha Spectroscopy System Operation 2 12-RL1320, Radioætive Souræ Control			
TERM IN AL OB Given an alph	JECTIVE: la spectroscopy system, calibrate the system per WP 12R	L1002.		
CONS EQUENCI Improper sam Component d	-	;		
HAZARDS (PER	RSONNEL/EQUIPMENT STATUS):			
PRE-REQUISITE TRAININ G/ TASK COMPLETION: 1. CF 3.00 Series 2. CRT-B02, Perform Alpha Spectroscopy Preop erational Checks				
TOOLS/EQUIPMENT	Γ (MATERIALS REQUIRED):			

- Canberra Model 740 1/7401 VR Alp ha Spect rosco py System 1.
- System Logbook 2.
- 3. Radioactive Sources

Instructions to Trainee: You shall acquire the necessary references and equip ment, and comp lete all required document ation. Kno wledge requirements shall be comp leted with 80% or greater accuracy. Critical step per formance shall be comp leted with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assist ance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
1	State the precautions associated with handling radioactive sources.	
1	State the importance of using a NIST certified alpha source for calibration.	
1	Discuss the expected alpha peaks based on the NIST source beingutilized.	
1	Describe the information that must be logged in the system logbook.	
1	Discuss the documentation requirements up on completion of the preoperational checks.	
1	State how to identify a "flagged" parameter on the calibration printout	

PERFORMANCE REQUIREMENTS:

Reference	Performance Requirement	Pass/Fail
2	Obtain and check out the required radioactive source.#	
1	Operate the VAX computer and establish initial conditions for performing alpha spectros copy system calibration.#	
1	Perform the alpha spectroscop y sy stem calibration.#	
1	Adjust the peak centroids to prop er location if not within specified range.#	
1	Document the completion of alpha spectroscopy calibration in the system logbook.#	

indicates a critical step

FINAL EVALUATION:	PASS	FAIL
COMMENTS:		
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EVALUATOR S IGNATURE:		DATE:
TRAINEE SIGNATURE:		DATE:
MANAGER SIGNATURE:		DATE: